

**CRIMSON PIPELINE L.P.
DOMINGUEZ CHANNEL OIL SPILL
RECOVERY WELL REMOVAL VOLUMES
FRENCH DRAIN INVESTIGATION**

TABLE 3

Well ID	DTP (in)	DTB (in)	Time Begin Purge	Time End Purge	Total Volume Purged (gallons)	Estimated Water Purged (gallons)	Estimated Crude Oil Recovered (gallons)	Comments
8-Dec-11								
RW-212W+50	58		8:08	9:26	2.9	2.32	0.58	Water and Oil mixture (~20% oil)
RW-212W	60		9:32	9:43	4.9	3.92	0.98	Water and Oil mixture (~20% oil)
RW-209W	59.75	66.75	9:54	10:11	1.2	0.96	0.24	Water and Oil mixture (~20% oil)
RW-212W+50	59		10:29	10:42	4.2	3.36	0.84	Water and Oil mixture (~20% oil)
RW-212	60.25	75.375	11:30	11:43	1.9	1.52	0.38	Water and Oil mixture (~20% oil)
RW-209W	62.25	66.75	11:54	12:02	3.3	2.64	0.66	Water and Oil mixture (~20% oil)
RW-207W	60	68.25	13:45	14:03	2.3	1.84	0.46	Water and Oil mixture (~20% oil)
RW-212W+50	58.5		14:18	14:24	2.7	2.16	0.54	Water and Oil mixture (~20% oil)
RW-212W	60.5		14:31	14:41	4.3	3.44	0.86	Water and Oil mixture (~20% oil)
RW-209W	63.25	66.75	14:50	14:54	0.2	0.16	0.04	Water and Oil mixture (~20% oil)
RW-207W	65.5	68.25	15:04	15:12	1.6	1.28	0.32	Water and Oil mixture (~20% oil)
Daily Totals					29.5	23.60	5.90	
12/13/2011 (following rain event on 12/12/11)								
RW-207W	57	68.25	9:43	10:16	21.2	20.78	0.42	Mostly Water (2%)
RW-209W	56.25	66.75	10:32	11:02	17.4	17.05	0.35	Mostly Water (2%)
RW-205	50	64.5	11:21	11:55	38	37.62	0.38	Water - Very little oil (1%)
RW201W+75	72.25	94.5	13:22	13:31	13.3	13.17	0.13	Water - Very little oil (1%)
RW-204W+100	58.25	64.75	13:56	14:06	27.5	27.23	0.28	Water - Very little oil (1%)
RW-204W+150	49.5	76.13	14:13	14:20	9.6	9.50	0.10	Water - Very little oil (1%)
RW-202W+25	65.75	95	14:32	15:03	39.9	38.70	1.20	Mostly Water (3%)
Daily Totals					166.9	164.05	2.85	
14-Dec-11								
RW-202W	66.15	82.00	8:14	8:24	14.20	14.06	0.14	Water - Very little oil (1%)
RW-202W+25	65.75	94.00	8:26	8:36	56.60	56.03	0.57	Water - Very little oil (1%)
RW-202W+50	66.00		8:38	8:40	22.00	21.78	0.22	Water - Very little oil (1%)
RW-202W+100	61.50		8:46	8:56	16.20	16.04	0.16	Water - Very little oil (1%)
RW+202W+25	66.15		8:58	9:06	18.00	17.82	0.18	Water - Very little oil (1%)
RW-205W+165	41.15		9:12	9:40	46.40	45.94	0.46	Water - Very little oil (1%)
RW-207W+18								Vac truck removed ~1" of oil
RW-207		68.25						Vac truck removed ~1" of oil
RW-212W	44.15		10:30	11:34	54.50	53.96	0.55	Changed to 3/4" pump -(1% oil)
RW-209W	45.50	66.75	11:41	11:48	16.30	15.97	0.33	Mostly water with Oil (2%)
Daily Totals					244.20	241.60	2.61	
29-Dec-11								
RW-201W+125	73.50	89.75	8:10	8:20	27.00	26.73	0.27	Water - Very little oil (1%)
RW-202W	67.75		8:20	8:27	10.00	9.90	0.10	Water - Very little oil (1%)
RW-202W+25	67.00		8:28	8:34	18.00	17.82	0.18	Water - Very little oil (1%)
RW-202W+50	63.38		8:34	8:38	19.00	18.81	0.19	Water - Very little oil (1%)
RW-202W+75	63.00		8:41	8:50	36.00	35.64	0.36	Water - Very little oil (1%)
RW+201W+125	73.50		8:55	9:00	27.50	27.23	0.28	Water - Very little oil (1%)
RW+202W	67.75		9:01	9:08	27.50	27.23	0.28	Water - Very little oil (1%)
RW+202W+25	67.00		9:09	9:14	27.50	27.23	0.28	Water - Very little oil (1%)
RW+202W+50	63.38		9:15	9:21	27.50	27.23	0.28	Water - Very little oil (1%)
RW+204W+100	0.00		0:00	0:00	0.00	0.00	0.00	Well was dry upon arrival
RW+204W+150	0.00		0:00	0:00	0.00	0.00	0.00	Well was dry upon arrival
RW-205W	61.00		10:01	10:11	13.00	12.87	0.13	Water - Very little oil (1%)
RW-205W+165	56.00		10:15	10:21	13.00	12.87	0.13	Water - Very little oil (1%)
RW-207W	59.63		10:26	10:29	5.00	4.95	0.05	Water - Very little oil (1%)
RW-209W	60.00		11:19	11:29	14.00	13.86	0.14	Water - Very little oil (1%)
RW-212W	60.50		10:45	10:47	7.00	6.93	0.07	Water - Very little oil (1%)
RW-212W+50	58.50		10:48	10:59	13.00	12.87	0.13	Water - Very little oil (1%)
RW-212W	60.50		10:59	11:09	7.00	6.93	0.07	Water - Very little oil (1%)
RW-207W+18	60.75		11:19	11:29	5.00	4.95	0.05	Water - Very little oil (1%)
Daily Totals					297.00	294.03	2.97	
26-Jan-12								
RW201W+75	71	94.5	9:15	9:30	18	17.46	0.54	Water - Very little oil (1%)
RW-201W+125	71.50		9:40	9:50	18.00	17.46	0.54	Water - Very little oil (1%)
RW+202W	65.00		10:00	10:20	52.00	50.44	1.56	Water - Very little oil (1%)
RW+202W+25	65.50		10:25	10:35	50.00	48.50	1.50	Water - Very little oil (1%)
RW+202W+50	64.00		10:40	10:55	50.00	48.50	1.50	Water - Very little oil (1%)

RW-202W+75	61.00		11:05	11:13	27.00	26.19	0.81	Water - Very little oil (1%)
RW+204W+100	63.50		11:25	11:43	48.00	46.56	1.44	Water - Very little oil (1%)
RW+204W+150	69.00		0:00	0:00	0.00	0.00	0.00	Well was dry upon arrival
RW-205W	66.50		11:49	12:00	27.50	26.68	0.83	Water - Very little oil (1%)
Daily Totals					290.50	281.79	8.72	
2-Feb-12								
RW-201W+125	75.63	89.75	9:00	9:18	42.60	42.40	1.20	Water - Very little oil (1%)
RW+202W	67.00	82.00	9:21	9:37	48.20	47.30	0.90	Water - Very little oil (1%)
RW+202W+25	67.00	94.00	9:54	10:06	47.70	46.80	0.90	Water - Very little oil (1%)
RW-212W+50	53.38		10:37	10:57	45.20	43.80	1.40	Water - Very little oil (1%)
RW-212W	59.38		11:00	11:10	8.00	6.40	1.60	Water with oil (20%)
Daily Totals					191.70	186.70	6.00	
9-Feb-12								
RW201W+75	73.875	94.5	7:50	7:56	27.5	27.28	0.220	Water - Very little oil (1%)
RW-201W+125	73.750		7:58	8:17	96.00	95.23	0.768	Water - Very little oil (1%)
RW+202W	67.625		8:18	8:30	48.00	47.62	0.384	Water - Very little oil (1%)
RW+202W+25	67.250		8:32	8:36	42.00	41.66	0.336	Water - Very little oil (1%)
RW-202W+75	63.375		NO	PURGE	0.00	0.00	0.000	Water - No visible oil
RW+202W+25	68.125		9:09	9:11	27.50	27.28	0.220	Water - Very little oil (1%)
RW+202W+50	66.125		9:12	9:28	40.00	39.68	0.320	Water - Very little oil (1%)
RW-205W	68.500		9:37	9:51	27.50	27.28	0.220	Water - Very little oil (1%)
RW-205W+165	60.250		9:56	10:02	15.00	14.88	0.120	Water - Very little oil (1%)
RW-207W	59.375		10:18	10:35	4.00	3.97	0.032	Water - Very little oil (1%)
RW-207W+18	68.125		10:36	10:41	4.00	3.97	0.032	Water - Very little oil (1%)
RW-212W+50	58.125		10:52	11:01	11.00	10.78	0.220	Water - Very little oil (2%)
RW-212W	60.125		11:03	11:10	4.50	4.41	0.090	Water- Very little oil (2%)
RW-209W	59.875		11:17	11:26	4.00	3.97	0.032	Water - Very little oil (1%)
					361.00	348.01	2.994	
23-Feb-12								
RW-202W+75	64.000		8:00	8:30	105.00	104.27	0.735	Water - Very little oil(<1%)
RW+202W+50	68.000		8:37	8:57	105.00	104.27	0.735	Water - Very little oil(<1%)
RW+202W+25	70.250		9:07	9:15	52.00	51.64	0.364	Water - Very little oil(<1%)
RW+202W	71.000		9:20	9:43	105.00	104.16	0.840	Water - Very little oil(<1%)
RW-201W+125	71.500		10:00	10:18	74.00	73.41	0.592	Water - Very little oil(<1%)
RW+202W	71.000		10:18	10:23	30.00	29.76	0.240	Water - Very little oil(<1%)
					471.00	467.49	3.508	
1-Mar-12								
RW-212W	60.000		7:57	7:59	2.30	2.28	0.016	Water - Very little oil(<1%)
RW-212W+50	58.500		8:03	8:23	4.30	4.27	0.030	Water - Very little oil(<1%)
RW-212W	60.000		8:26	8:40	0.60	0.60	0.004	Water - Very little oil(<1%)
RW-209W	59.875		9:26	9:50	0.06	0.06	0.000	Water - Very little oil(<1%)
RW-207W+18	59.000		10:02	10:32	6.80	6.75	0.048	Water - Very little oil(<1%)
RW-207W	59.750		10:32	10:47	15.90	15.79	0.111	Water - Very little oil(<1%)
RW-202W+75	68.500		10:59	11:03	13.90	13.80	0.097	Water - Very little oil(<1%)
RW+202W+50	60.750		11:03	11:13	14.70	14.60	0.103	Water - Very little oil(<1%)
RW+202W+25	72.000		11:13	11:23	28.60	28.40	0.200	Water - Very little oil(<1%)
RW+202W	73.000		11:24	11:37	29.50	29.29	0.207	Water - Very little oil(<1%)
					116.66	115.84	0.817	
9-Mar-12								
RW201W+75	79.125	94.5	7:58	8:05	52	51.58	0.416	Water - Very little oil (1%)
RW+202W	73.000		8:13	8:29	53.00	52.63	0.371	Water - Very little oil (<1%)
RW+202W+25	73.750		8:34	8:37	26.00	25.82	0.182	Water - Very little oil (<1%)
RW+202W+50	72.125		8:39	8:46	26.00	25.82	0.182	Water - Very little oil (<1%)
RW-202W+75	68.250		8:49	9:04	20.00	19.86	0.140	Water - Very little oil (<1%)
RW-205W	69.375		9:13	9:15	5.00	4.96	0.040	Water - Very little oil (1%)
RW-205W+165	65.500		9:20	9:29	6.00	5.95	0.048	Water - Very little oil (1%)
RW-212W+50	58.750		9:50	9:56	2.80	2.78	0.020	Water - Very little oil (<1%)
RW-212W	61.000		9:57	10:01	2.80	2.78	0.020	Water - Very little oil (<1%)
RW-209W	60.375		10:09	10:26	0.90	0.89	0.006	Water - Very little oil (<1%)
RW-207W+18	68.750		10:35	10:47	1.00	0.99	0.007	Water - Very little oil (<1%)
RW-207W	60.250		10:54	10:56	0.00	0.00	0.000	Water - Very little oil (<1%)
RW-201W+125	80.250		11:08	11:12	40.00	39.68	0.320	Water - Very little oil (<1%)
RW+202W	74.000		11:18	11:35	53.00	52.63	0.371	Water - Very little oil (<1%)
					350.26	347.76	2.504	
Totals								
DTP: Depth To Product			Casing Diameter = 6 inches		2158.46	2123.10	36.36	
DTB: Depth To Bottom			55 gallon Drum = 33 inches Height					
ADDITIONAL COMMENTS:			1" = 1.66 gal/ in					